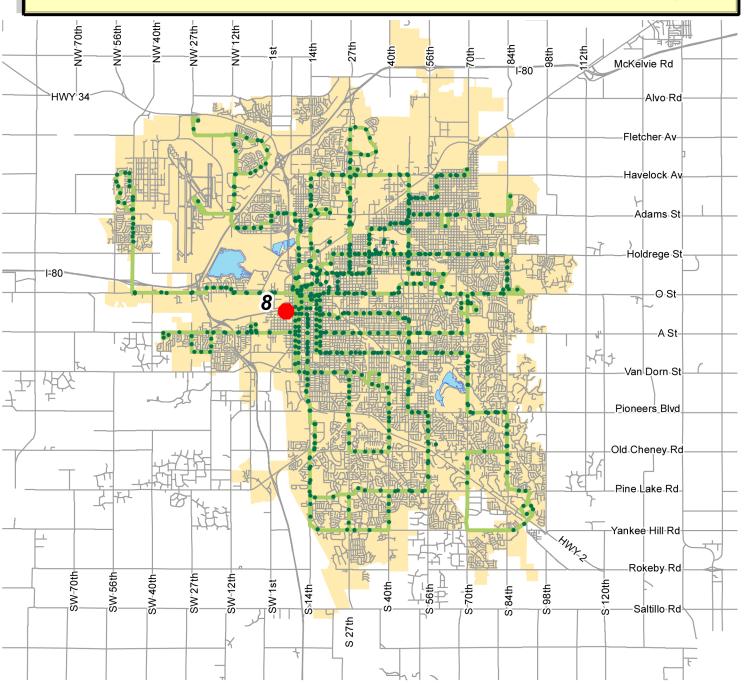


City of Lincoln: StarTran

Lincoln Metropolitan Planning Organization Transportation Improvement Program

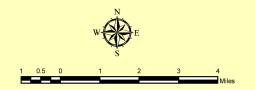
Star Tran

FY 2021 - 2024





- #1 Purchase/Financing of Full Size Buses
- #2 Purchase 4 Handivans
- #3 Bus Stop Amenities (required by FTA)
- #4 Security Enhancements (required by FTA)
- **#5 Purchase of Supervisor Vehicle**
- #6 Computer Hardware and Software
- **#7** Shop Tools/Equipment
- #8 Building Renovations/Improvements
- #9 Maintenance Facility Construction/Relocation
- #10 Multi Modal Center/Feasibility Study
- **#11 Predictive Maintenance**
- **#12 Transit Development Plan Update**
- #13 Autonomous Shuttles (Micro-AV)



Consult the detailed project descriptions and funding summary for further information.

PROJECT PROGRAMMED EXPROSTURES & FUNDING SOURCES (FS) PROGRAMMED EXPROSTUR	2021-2024 LINCOLN CITY/LANCASTER COUNTY, NEBRASKA		AGEN	CY: Ci	ty of Lincoln							
Location & Detarned Improvement Decorption Control Number() Co	TRANSPORTATION IMPROVEMENT PROGRAM			DIVISION: StarTran								
Recording A Clasterines	PROJ NO	PROJECT PROGRAMMED EXPENDITURES & F						UNDING SOURCES (FS)				
Since the public acquisition of the Lincoln City Lines in 1971, Staff ran has been providing efficient, convenient and economical public reacquisition of the Lincoln City Lines in 1971, Staff ran has been providing efficient, convenient and economical public reacquisition of the Lincoln City Lines in 1971, Staff ran has been providing efficient, convenient and economical public interactions services. The FV 201-2024 Trib describes provided comply with the current 2040 Long Range Transportation of services. The FV 201-2024 Trib describes capital laters which will afford the opportunity for continued improvement of Staff ran services. The FV 201-2024 Trib describes capital laters which will afford the opportunity for continued improvement of Staff ran services. The FV 201-2024 Trib describes capital laters which will afford the opportunity for continued improvement of Staff ran services. Fully services in continued improvement of Staff ran services. The FV 201-202 Trib describes capital laters which is the service described as follows: Purchase F Financing of Full Size Buses and Related Equipment A phased purchase of hall-size replacement transit buses is sterilled as follows: Purchase F Financing of Full Size Buses have a seeled-purch service and the service of the Staff ran hybrid services and the service of the Staff ran hybrid services and the services of the Staff ran hybrid services and the services of the Staff ran hybrid services and the services of the Staff ran hybrid services and the services of the Staff ran hybrid services and the services of the Staff ran hybrid services and the services of the Staff ran hybrid services and the services of the Staff ran hybrid services and the services of the Staff ran hybrid services and the services of the Staff ran hybrid services and the services of the Staff ran hybrid services and the services of the Staff ran hybrid services and purchased services. Provided the Staff ran hybrid services and purchased services and purchased services and purchased serv		(Location & Distance)		PRIORITY PROJECTS								
Since the public acquisition of the Lincoln City Lines in 1971, StarTran has been providing efficient, convenient and excoromatal public transportation sources. This avives provided comply with the current 2000 (ong Rangh Transportation excoromatal public transportation sources. This avives provided comply with the current 2000 (ong Rangh Transportation excoromatal public transportation sources. This avives provided comply with the current 2000 (ong Rangh Transportation excoromatal public transportation sources. This avives provided continued replacement of 2000 (ong Rangh Transportation excoromatal public transportation sources. This avives provided continued replacement of 2000 (ong Rangh Transportation excoromatal public transportation sources. This avives provided continued replacement of 2000 (ong Rangh Transportation excoromatal public transportation sources. This avives provided or 2000 (ong Rangh Transportation excoromatal public transportation sources. This avives provided excoromatic public transportation sources. This avive provided excoromatic public transportation sources. This avive provided excoromatic public transportation sources of 1014-202 (ong Rangh Transportation excoromatic public transpor		(Improvement Description)		PRIOR					COST	TOTAL		
Since the public acquisation of the Lincoin City Lines in 1971, StarTran has been providing efficient, convenient and economical public transportation services. The services provided comply with the current 2690 Long Range Transportation Plans - 2016 Update. Prevous capital improvement programs have include designment resembles in Board Transportation of services. The F7 2221-2024 TP describes capital issess which will afford the opportunity for continued in provincing of services. The F7 2221-2024 TP describes capital issess which will afford the opportunity for continued in provincing of services. The F7 2221-2024 TP describes capital issess which will afford the opportunity of services. The F7 2221-2024 TP describes capital issess which will afford the opportunity of services. The F7 2221-2024 TP describes and purchase of services and purchase of services. The F7 2221-2024 TP describes and purchase of services. The F7 2221-2024 TP describes and purchase of fall size replacement transit buses is identified as follows: Buses Purchased Functing Accumulated Potential Reclacement Delivery		(Control Number)			S 2020-21 FS	2021-22 FS	2022-23 FS	2023-24 FS	BEYOND	PROJECT COSTS		
A phased purchase of full-size replacement transit buses is identified as follows: Buses Purchased		economical public transportation services. The services provided comply with the current 2040 Long Range Transportation Plan - 2016 Update. Previous capital improvement programs have included equipment essential in StarTran's provision of services. The FY 2021-2024 TIP describes capital items which will afford the opportunity for contuned improvement of StarTran services. Future years include continued replacement of StarTran transit vehicles and purchase of										
8 FV 2019-20 through FV 2020-21 8-2006 Gillig Buses CV2022 FTA requires that full-size transit whicles have a twelve-year economic life, although StarTran typically operates buses more than twelve years of operation. An analysis of the structural and engine conditions of the StarTran fleet is conducted annually, which is utilized to develop the replacement schedule is no compliance with the most recent analysis and bus replacement program. 8 Full Size Buses & 2 Charging Stations 8 Full Size Buses & 2 Charging Stations 10 Furchase 4 Handivans Providing a high quality service to those with a disability includes purchasing comfortable and accessible vehicles. Funding is to purchase 4 Handivans in FY2021. Handivans will be alternate fueled, and/or fuel efficient vehicles and proposed vehicle types will be reviewed by the Handivan Working Group. 10 FAL 10 FA 10	1	, ,										
more than twelve years before replacement. All of the current buses being replaced as indicated above will have exceeded the required theelve years of operation. An analysis of the structural and engine conditions of the StarTran fleet is conducted annually, which is utilized to develop the replacement schedule of StarTran buses. The above phased bus replacement schedule is in compliance with the most recent analysis and bus replacement program. 8 Full Size Buses & 2 Charging Stations TOTAL 0.0 0.0000 5,531.0 0.0 0.0 0.0 2 Purchase 4 Handivans Providing a high quality service to those with a disability includes purchasing comfortable and accessible vehicles. Funding is to purchase 4 Handivans in FY2021. Handivans will be alternate fueled, and/or fuel efficient vehicles and proposed vehicle types will be reviewed by the Handivan Working Group. TOTAL 0.0 98.0 0.0 0.0 0.0 0.0 3 Bus Stop Amenities (required by FTA) Bus stop amenities (required by FTA) Bus stop amenities (Transit Enhancements) include: benches, shelters, pads, signage, bicycle related equipment, and landscaping. These amenities make a transit system more safe, comfortable, and user friendly. Effective FY2004-05, one percent of the FTA allocation to StarTran is required by FTA for unitarise rehancements. The priority of these funds will be directed towards 1) improving accessibility 2) replacement or improvement of shelters at major boarding locations 8.0 S 3.0 S 8.0												
8 Full Size Buses & 2 Charging Stations 4,685.0 FA 846.0 SR TOTAL 0.0 0.000 5,531.0 0.0 0.0 0.0 Purchase 4 Handivans Providing a high quality service to those with a disability includes purchasing comfortable and accessible vehicles. Funding is to purchase 4 Handivans in FY2021. Handivans will be alternate fueled, and/or fuel efficient vehicles and proposed vehicle types will be reviewed by the Handivan Working Group. TOTAL 0.0 98.0 0.0 0.0 0.0 3 Bus Stop Amenities (required by FTA) Bus stop amenities (Transit Enhancements) include: benches, shelters, pads, signage, bicycle related equipment, and landscaping. These amenities make a transit system more safe, comfortable, and user friendly. Effective FY2004-05, one percent of the FTA allocation to StarTran is required by FTA to fund transit enhancements. The priority of these funds will be directed towards 1) improving accessibility 2) replacement or improvement of shelters at major boarding locations 3.2.0 FA 3.2.0 F		more than twelve years before replacement. All of the current buses being replaced as indicated above will have exceeded the required twelve years of operation. An analysis of the structural and engine conditions of the StarTran fleet is conducted annually, which is utilized to develop the replacement schedule of StarTran buses. The above										
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Providing a high quality service to those with a disability includes purchasing comfortable and accessible vehicles. Funding is to purchase 4 Handivans in FY2021. Handivans will be alternate fueled, and/or fuel efficient vehicles and proposed vehicle types will be reviewed by the Handivan Working Group. TOTAL 0.0 98.0 0.0 0.0 0.0 0.0 0.0 3 Bus Stop Amenities (required by FTA) Bus stop Amenities (required by FTA) Bus stop amenities (Transit Enhancements) include: benches, shelters, pads, signage, bicycle related equipment, and landscaping. These amenities make a transit system more safe, comfortable, and user friendly. Effective FY2004-05, one percent of the FTA allocation to StarTran is required by FTA to fund transit enhancements. The priority of these funds will be directed towards 1) improving accessibility 2) replacement or improvement of shelters at major boarding locations 32.0 FA 120.0 FA 336.0 FA 32.0 FA 32.0 FA an 3) adding benches to medium to high use bus stops. TOTAL 40.0 150.0 420.0 40.0 40.0 0.0		тс	TAL	0.0	0.000	5,531.0	0.0	0.0	0.0	5,531.0		
3 Bus Stop Amenities (required by FTA) Bus stop amenities (Transit Enhancements) include: benches, shelters, pads, signage, bicycle related equipment, and landscaping. These amenities make a transit system more safe, comfortable, and user friendly. Effective FY2004-05, one percent of the FTA allocation to StarTran is required by FTA to fund transit enhancements. The priority of these funds will be directed towards 1) improving accessibility 2) replacement or improvement of shelters at major boarding locations 32.0 FA 336.0 FA 32.0 FA 32	2	Providing a high quality service to those with a disability includes purchasing comfortable and accessible vehicles. Funding is to purchase 4 Handivans in FY2021. Handivans will be alternate fueled, and/or fuel efficient vehicles and										
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TOTAL 40.0 150.0 420.0 40.0 40.0 0.0 4 Security Enhancements (required by FTA)	3	Bus stop amenities (Transit Enhancements) include: benches, shelters, pads, signage, bicycle related equipment, and landscaping. These amenities make a transit system more safe, comfortable, and user friendly. Effective FY2004-05, one percent of the FTA allocation to StarTran is required by FTA to fund transit enhancements. The priority of these funds will be directed towards 1) improving accessibility 2) replacement or improvement of shelters at major boarding locations										
			TAL						0.0	650.0		
security enhancements. Such enhancements will include improved facility surveillance and improved bus camera systems. 32.0 FA 32.0 FA 32.0 FA 32.0 FA 32.0 FA	4	Safety and security is a top priority for StarTran. One percent of the FTA allocation to StarTran is required by FTA to fund security enhancements. Such enhancements will include improved facility surveillance and improved bus camera systems.										
Improving the perimeter of the StarTran facility through gates and fencing will also be included in this funding. 8.0 SR 23.0 SR 8.0 S			ΓAL						0.0	235.0		

3/25/2020 D-1 Lincoln Metropolitan Planning Organization

2021-202	24 LINCOLN CITY/LANCASTER COUNTY, NEBRASKA		AGENCY: City of	of Lincoln					
TRANSPORTATION IMPROVEMENT PROGRAM			DIVISION: StarTran						
PROJ NO	PROJECT	PROGRAMMED EXPENDITURES & FUNDING SOURCES (FS)							
(Map)	(Location & Distance)			PF	RIORITY PROJECTS	5			
	(Improvement Description)	PRIOR FISCAL					COST	TOTAL	
	(Control Number)		YEARS FS	2020-21 FS	2021-22 FS	2022-23 FS	2023-24 FS	BEYOND PROGRAM	PROJECT COSTS
5	Purchase of Supervisor Vehicle Funds are proposed in FY 2020-21 to purchase a replacement supervisor vehicle. In addition to road supervision, this vehicle will be used to transport supplies and schedules, carry patrons as necessary, and will be driven in inclement weather. Propulsion type, including gasoline, electric and CNG, will be evaluated based on lifecycle costs and availability.					64.0 FA 16.0 SR			
		TOTAL	0.0	0.0	0.0	80.0	0.0	0.0	80.0
6	Computer Hardware and Software Up-to-date computer hardware and software is vital to making StarTran more efficient. Automated scheduling of both fixed route and Handivan as well as Automatic Vehicle Location (AVL) equipment will ensure that routes are efficiently scheduled. Funds are proposed in FY20-21 and FY 21-22 to purchase replacement AVL equipment for all vehicles, upgrade software for the AVL system, purchase tablets for our Handivans, purchase GPS units for Handivan operators, upgrade paratransit software (Handivan), purchase fleet facility parking software, predictive maintenance software, and purchase an automated fixed route scheduling system.	TOTAL	1,040.0 FA 260.0 SR 1,300.0	80.0 FA 20.0 SR 100.0	80.0 FA 20.0 SR 100.0	0.0	0.0	0.0	200.0
7	Shop Tools / Equipment Funds are proposed every year for continued routine upgrade and replacement of tools and equipment, as well as for replacement due to unexpected breakage. Such tools and equipment include an air compressor, vehicle lifts and a floor scrubber.	TOTAL	15.0 FA 3.8 SR 18.8	28.0 FA 7.0 SR 35.0	28.0 FA 7.0 SR 35.0	16.0 FA 4.0 SR 20.0	16.0 FA 4.0 SR 20.0	0.0	110.0
8	Building Renovations / Improvements Prior appropriations will be used to fund current/future projects. Funds are proposed for concrete replacement, floor painting, atomic clock system, new garage doors, LED lighting throughout all facilities, and a new HVAC system.	TOTAL	160.0 FA 40.0 SR 200.0	0.0	0.0	0.0	0.0	0.0	0.0
9	Maintenance Facility Construction / Relocation Funds are proposed to update feasibility study, purchase land and build a fast fuel compressed natural gas (CNG) station. Environmental work and preliminary design of bus storage, maintenance and administration functions will also take place. Note: Anticipate additional federal funds in FY 2021-22 via the FTA Buses and Bus Facility Program.	TOTAL	0.0	4,530.5 FA 2,216.0 SR 6,746.5	0.0	0.0	0.0	0.0	6,746.5
10	Multi Modal Center - Feasibility Study The Multimodal Transit Transfer Center (MTTC) project will improve travel options to central business district destinations, improve connections between different travel modes, and improve bus passenger amenities including covered passenger boarding areas and interior passenger amenities. Comfort and safety will be important aspects of this project and public/private partnerships and economic development opportunities will also be considered. Following completion of the feasibility study, environmental and design work will be the next steps.	TOTAL	0.0	360.0 FA 90.0 SR 450.0	0.0	0.0	0.0	0.0	450.0
11	Predictive Maintenance Predictive maintenance will extend the life of buses, reduce capital costs, reduce operating costs, reduce inventory costs, and most importantly will reduce service disruptions due to mechanical failures. A predictive maintenance program identifies when parts will fail and then schedules these parts for replacement before they fail. To begin the program additional maintenance is needed up front. Software then determines when parts should be replaced.	TOTAL	0.0	200.0 FA 50.0 SR 250.0	0.0	0.0	0.0	0.0	250.0
12	Transit Development Plan Update Funds will be used to update the Transit Development Plan. This study will be the compass to guide StarTran over a five to six year period.	TOTAL	0.0	176.0 FA 44.0 SR 220.0	0.0	0.0	0.0	0.0	220.0

3/25/2020 D-2 Lincoln Metropolitan Planning Organization

2021-202	4 LINCOLN CITY/LANCASTER COUNTY, NEBRASKA	AGENCY: City	of Lincoln							
TRANSPO	TRANSPORTATION IMPROVEMENT PROGRAM DI		DIVISION: StarTran							
PROJ NO	PROJECT		PROGRAMMED EXPENDITURES & FUNDING SOURCES (FS)							
111001110	(Location & Distance)	PRIORITY PROJECTS								
	(Improvement Description)		1	NIONITT I NOULOT						
	· · · · · · · · · · · · · · · ·	PRIOR					COST	TOTAL		
	(Control Number)	FISCAL YEARS FS	2020-21 FS	2021-22 FS	2022-23 FS	2023-24 FS	BEYOND PROGRAM	PROJECT COSTS		
							1110010111	000.0		
13	Autonomous Shuttles (Micro-AV)									
	Autonomous vehicle technology is poised to increase mobility options for individuals around the world and Lincoln is									
	establishing itself as a community at the forefront of using these technologies for the good of its people. Deployment of lease autonomous shuttles will be tested with ambassadors on board during the pilot project.	200.0 SR	200.0 SR	200.0 SR	200.0 SR	200.0 SR				
	TOTAL	200.0	200.0	200.0	200.0	200.0	0.0	800.0		
	State / Federal	1,279.0	5,669.8	5,161.0	144.0	80.0		11,054.8		
1	General Revenue	0.0	0.0	0.0	0.0	0.0		0.0		
	Special Reserves TOTAL	519.8	2,694.7	1,165.0	236.0	220.0	0.0	4,315.7		
	TOTAL	1,798.8	8,364.5	6,326.0	380.0	300.0	0.0	15,370.5		
	OPERATIONS FUNDING SOURCE SUMMARY									
	Fixed Route Operations & Specialized			`						
	Transportation Services for Lincoln, NE Section 5307 Preventative Maintenance		1,350.0	1,350.0	1,350.0	1,350.0		5,400.0		
	Section 5307 Preventative Maintenance Section 5307 Operating and JARC - StarTran		75.0	75.0	75.0	75.0		300.0		
	Section 5307 Operating and JARC - Lincoln Literacy		12.0	12.0	12.0	12.0		48.0		
	Section 5307 ADA		280.0	280.0	280.0	280.0		1,120.0		
	NE (State Revenue/Aid)		1,100.0	944.0	897.0	907.0		3,848.0		
	GR (General Revenues - Local Funds)		7,100.0	7,150.0	7,200.0	7,250.0		28,700.0		
	SC (Service Charges - Local Funds) TOTAL	0.0	3,150.0 13,067.0	3,150.0 12,961.0	3,150.0 12,964.0	3,150.0 13,024.0	0.0	12,600.0 52,016.0		
	107/td	0.0	10,007.0	12,501.0	12,304.0	10,024.0	0.0	32,010.0		
	TOTALS FOR STARTRAN FUNDING									
	FEDERAL FUNDING									
	Federal Fonding		5,669.8	5,161.0	144.0	80.0		11,054.8		
	Section 5307 Preventative Maintenance		1,350.0	1,350.0	1,350.0	1,350.0		5,400.0		
	Section 5307 Operating and JARC		87.0	87.0	87.0	87.0		348.0		
	Section 5307 ADA		280.0	280.0	280.0	280.0		1,120.0		
	SUB-TOTAL FEDERAL FUNDING	0.0	7,386.8	6,878.0	1,861.0	1,797.0	0.0	17,922.8		
	STATE FUNDING									
	NE (State Revenue/Aid)		1,100.0	944.0	897.0	907.0		3,848.0		
	State / Federal							0.0		
	SUB-TOTAL STATE FUNDING	0.0	1,100.0	944.0	897.0	907.0	0.0	3,848.0		
	LOCAL FUNDING									
	GR (General revenues - Local Funds)		7,100.0	7,150.0	7,200.0	7,250.0		28,700.0		
	SC (Service Charges - Local Funds)		3,150.0	3,150.0	3,150.0	3,150.0		12,600.0		
	Special Reserves (SR) SUB-TOTAL LOCAL FUNDING	0.0	2,694.7	1,165.0	236.0	220.0	0.0	4,315.7		
	SUB-TOTAL LOCAL FUNDING	0.0	12,944.7	11,465.0	10,586.0	10,620.0	0.0	45,615.7		
	TOTAL	. 0.0	21,431.5	19,287.0	13,344.0	13,324.0	0.0	67,386.5		
	Notes: Revenue & cost estimates use an inflation rate of 3%									
	TOPONIO & CONTROLES USE AN INHALICITACIÓ DE SE									
	STATUS OF PREVIOUS YEARS PROJECTS									
	Projects Completed or Under Contract									
	Purchase/Financing of Full Size Buses									
	Bus Stop Amenities									

3/25/2020 D-3 Lincoln Metropolitan Planning Organization